



# Dynes named UC president-designate



UNIVERSITY OF CALIFORNIA

From left: UC Regent John Davies and President Richard Atkinson congratulate Robert Dynes after his selection by the UC Board of Regents as president-designate of the University. Dynes, currently chancellor of UC San Diego, will take office Oct. 1.

Robert C. Dynes, a first-generation college graduate who went on to become a distinguished physicist and chancellor of UC San Diego (UCSD), was named the 18th president of the University of California system Wednesday by the UC Board of Regents.

Dynes, who joined UC San Diego as professor of physics in 1991 after a two-decade career in the private sector and was named chancellor in 1996, will become president of

See UC, page 7

# Local and state bioterrorism preparedness effort earns award for Lab's Pete Estacio

Lab employee Pedro Luis "Pete" Estacio is a part of a team that received a top award Wednesday from U.S. Secretary of Health and Human Services Tommy Thompson in Washington, D.C.

Estacio and 23 other members of the Bioterrorism State and Local Preparedness Coordination Group were presented with the Secretary's Award for Distinguished Service.

The award was given out during the department's annual awards ceremony in the Great Hall of the Hubert H. Humphrey Building.

A physician/senior scientist in the Chemical and Biological National Security Program (CBNSP), Estacio serves as an adviser to Thompson's Office of Public Health Emergency Preparedness.

"You were selected to receive this award not only because of your diligence and dedication, but also because of the impact of your personal contributions to the citizenry of our nation," Thompson wrote Estacio.

As a member of the Bioterrorism State and Local Preparedness Coordination Group, Estacio assisted with the evaluation of state grant applications for bioterrorism preparedness in 2002. He will also be performing similar work this year.

"My principal area of focus has been diagnostics that are prepared for the National Laboratory Response Network, which consists of labs across the nation that perform tests on samples," Estacio said.

See AWARD, page 8

# Researchers create X-ray emissions from comet in lab

By Anne M. Stark  
NEWSLINE STAFF WRITER

Lab physicists have produced X-ray emissions in a laboratory setting by recreating the conditions that exist when solar winds collide with gases surrounding comets.

Using the electron beam ion trap facility located at the Laboratory, physicists Peter Beiersdorfer, Hui Chen and Mark May created charge exchange between heavy ions to produce X-ray emissions, similar to what happens when

X-RAY, page 8

# Lab managers take top prizes, and that's no bull



JACQUELINE MCBRIDE/NEWSLINE

Senior managers Glenn Mara, Ron Cochran and Den Fisher (below, from left) donned their cowboy gear Wednesday for this year's team greenhorn penning competition, part of the kickoff celebration to the annual Livermore Rodeo. Cochran, the executive officer, took first place honors, winning a belt buckle. "It was 46 seconds of adrenaline rush," Cochran said. Fisher took second place, winning a plaque. This was the first time Deputy Director Mara participated in the competition, in which teams of

three try to pen cattle in record time. Also participating was Livermore Vice Mayor Tom Reitter of the Lab's New Technologies Engineering Division.



TSF update:  
Simulation to reality

— Page 3



Unlocking secret  
palace of science

— Page 4



Generating science  
excitement

— Page 5





# LAB COMMUNITY NEWS

## Weekly Calendar

Technical Meeting Calendar, page 4

Friday  
**13**

A representative from **California Casualty Insurance** will be in the Benefits Office today. Appointments are required and may be scheduled by calling 2-9955. California Casualty offers individual rates to Lab employees by payroll deduction for auto and homeowner/renter insurance. As with any employee-paid insurance coverage, employees are encouraged to comparison shop.

Wednesday  
**18**

**“How to Build A Cocoa Application in One Hour”** will be presented by LLNL electrochemist Dave Sopchak at 10:30 a.m. today as part of the Macintosh Technical Seminar Series. For further information, contact Duane Straub, 2-9774, or [straub1@llnl.gov](mailto:straub1@llnl.gov)

Thursday  
**19**

Alexander Golts, the deputy editor-in-chief of Russia’s Ezhnedelnyi zhurnal (Weekly journal), today will discuss **“Russian Military Policy and Military Reform”** at the next Center for Global Security Research seminar. Golts’ talk takes place at 10 a.m. in Bldg. 170.

The LLESA **New Hires Networking Group** (NHNG) invites all employees to its free annual pot luck picnic today from 4:30 6 p.m. in the employee picnic area (next to the pool). The NHNG provides a venue for “new hires,” regardless of time at the Lab, to socialize in an informal environment to learn more about each other and the Lab. For more information, contact Terry Brugger, 4-4992.

Saturday  
**21**

The LLESA networking group **Vaqueros Del Mar** will hold its annual seafood festival fund-raiser at 6 p.m. today at the Livermore Rod & Gun Club. The festival features food and drink from “land and sea” in an all-you-can-eat buffet, along with an art show and sale, and dancing. Cost is \$25 per person. For ticket information, contact David Hill, 4-6139.

## Retzlaff Vineyard hosts party for Ron Koopman

Ron Koopman is retiring after 36 years at LLNL. A party will be held at Retzlaff Vineyards on Wednesday, June 18, from noon to 2 p.m. Please contact Joyce Plis, 4-5042, or Liz Garcia, 2-6842, by Monday, June 16. Cost is \$18 per person.



**BROADCAST  
SCHEDULE**

**LAB TV**

Gregg Herken’s talk about E.O. Lawrence will be rebroadcast on Lab TV Channel 2 on Thursday, June 19, at 10 a.m., noon, 2, 4, and 8 p.m. and Friday, June 20, at 4 a.m.

## Equis Nexus



JACQUELINE MCBRIDE/NEWSLINE

Two dapple gray horses and a Shetland pony escaped from a farm across Greenville Road on Wednesday and galloped into the Lab’s Public Affairs Office Parking Lot. Public Safety officers corraled the equines and returned them to their owner.

## IN MEMORIAM

### Warren Persons

Warren Persons, the division leader in Computing Applications & Research, died June 6 of a heart attack. He was 59.

Persons, a resident of Tracy, joined the Lab in 1991, working in the Computation Directorate. He was set to retire on June 27.

Persons was a member of the Association for Computing Machinery and IEEE Computer Association. He enjoyed traveling and spending time with his family.

Survivors include his wife Connie, four children, his mother, and his first wife.

Services will be held today at 10 a.m. at St. Paul’s Lutheran Church in Tracy; internment will be at the Tracy Cemetery. A reception will follow at St. Paul’s multi-ministry building.

Contributions in his memory may be made to the American Heart Association; a collection is being taken up by Computing Applications & Research.

### Norman Schneider

Norman Schneider of Danville died June 8. He was 66.

Born in Ypsilanto, Michigan, he served in the Air Force for four years and graduated with Honors from UC Berkeley with a masters degree in mechanical engineering. He was an engineer at the Lab for 32 years and retired in 1996. Schneider enjoyed motor homing, boating and fishing.

Schneider is survived by his wife of 45 years, Nancy Schneider of Danville; his sons, Todd Schneider and Brent Schneider; and four grandchildren.

A memorial service will be held Saturday, at 3 p.m. at Wilson & Kratzer in Danville. (925) 820-2999. Private internment will be at San Joaquin Valley National Cemetery.

### Arthur M. Abbott

Arthur M. Abbott died at his home in Livermore on June 3. He was 73.

Abbott joined LLNL in 1957 in the supply area. In 1987, he became department head of the Supply and Distribution Department where he was involved in modernizing the supply activity. He was also involved in logistic support and test site operations during most of his 33-year Laboratory career.

Abbott retired in 1990 to enjoy his family, especially his grandchildren and their sporting activities.

Abbott is survived by Yvonne, his wife of 33 years; sons Jeff Sheline of Woodland, Steven Abbott of Oregon, Dan Sheline of Reno, Kevin Abbott of Stockton and their families; nine grand-

children and six great-grandchildren; and sisters Maudellen Lowe and Marilyn Baker.

Remembrances may be made to Hope Hospice, 6500 Dublin Blvd., Suite 100, Dublin, CA 94568-3151.

### Clara A. Nevis

Clara A. Nevis, a 73-year resident of Pleasanton, died June 1 at Kaiser Permanente Medical Center in Walnut Creek. She was 92.

Nevis was born Aug. 9, 1910 in Sonora, Calif. She was raised there and moved to Pleasanton when she was 19.

She was an account clerk at the Lab for 18 years and a parishioner at St. Augustine’s Catholic Church in Pleasanton.

She is survived by numerous nieces and nephews.

Services were held earlier this week.

### William Rodrigues

William “Bill” Rodrigues, a 10-year Tracy resident died last week at Kaiser Hospital in Fremont. He was 74.

Born Oct. 10, 1928 in Newman, Rodrigues moved to Tracy from Hayward in 1993. He served in the U.S. Marine Corps. from 1949 to 1959. Rodrigues worked as a receiving supervisor for 20 years at the Lab before retiring in 1988.

He is survived by his daughter, Christine Luna of Tracy; sister Jeanie Neumer of Vacaville; and his grandchildren, David Luna of Tracy, Jennifer Luna of Hayward and Valerie Luna of Stockton.

*Editor’s note: Obituary information should be sent to [newsline@llnl.gov](mailto:newsline@llnl.gov) or faxed to 2-9291.*

## Newsline

Newsline is published weekly by the Internal Communications Department, Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

### Contacts:

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Designer: Julie Korhummel, 2-9709

Distribution: Mail Services at LLNL

Public Affairs Office: L-797 (Trailer 6527), LLNL, P.O. Box 808, Livermore, CA 94551-0808  
Telephone: (925) 422-4599; Fax: (925) 422-9291  
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Web site: <http://www.llnl.gov/PAO/>

# AROUND THE LAB



## Terascale Simulation Facility construction powers on

**By Don Johnston**  
NEWSLINE STAFF WRITER

Excavation of a trench to connect the Terascale Simulation Facility (TSF) to an existing 13.8 kilovolt (kV) electrical power ductbank has begun.

The longest trench will run from just west of TSF to the Laboratory's north buffer zone to tap into the existing ductbank which connects to the substation at the corner of Greenville Road and Patterson Pass. A second trench will run from the southwest side of TSF connecting to an existing electrical ductbank near Bldg. 551E that then extends to Bldg. 424.

Anna Maria Bailey, TSF Design and Construction Manager for the Lab, said because of the reduced electrical requirements of the machines that will occupy the facility, it will no longer be necessary to bring in 115kV overhead lines to TSF.

Digging has begun near the Central Cafeteria and LLNL Library. The trench is being dug in segments of about 200 feet each to allow for adjustments and for the safety of pedestrians and construction workers. Completion of the concrete encased conduit and installation of the medium voltage cable is expected in late fall.

While every effort is being made to minimize the impact on employees in areas near the trenching work, "people need to be aware of safety issues, pay attention to signs and use the pedestrian bridges provided," Bailey said.

The TSF Project team is working with facility managers in nearby buildings and facilities to minimize the impact of construction activities. Updates will be provided in Newsline and NewsOnLine as trenching work progresses.

Construction of the facility that will house the next generation supercomputer is about 52 percent complete, according to Anita Zenger, TSF Project Manager for Conventional Facilities. "The special architectural features of



JACQUELINE MCBRIDE/NEWSLINE

Construction managers unfurled a banner recently from the glass facade of the office tower part of the Terascale Simulation Facility, marking 100,000 man hours of work on the project injury free.

this building are really starting to show."

The glass façade of the office building portion of the facility, parts of the outer wall and curved top of the office tower auditorium offer glimpses of what the finished product will look like.

The cooling system for the computer floor, eventually consisting of 25 air handler units of 80,000 CFM each, is being installed.

Completion of first-phase construction of the west computer area is scheduled for December and is to be turned over to the Computation Directorate in June 2004 for delivery of ASCI Purple. In a second phase, the east office tower wing of the building is scheduled for occupation in June 2005 and the east computer area is to be turned over to Computation in June 2006.

The TSF project reached a safety milestone in May by surpassing 100,000 man-hours without a lost workday injury.

"This is a tribute to the great partnership we've established with the contractor, M.A. Mortensen Advanced Technology Group (ATG)," said Rick Visoria, Lab program/project manager. "Mortensen's safety program is very serious. They've really fine tuned it and they deserve a lot of credit for this safety

### Facts about the TSF

- TSF contains 23 miles of electrical conduit underground and 44 miles above ground.
- TSF contains 130 miles of fiber optic cable.
- TSF contains 1,000 miles of telephone and data wire.

record."

Mortensen honored workers at a recent luncheon and workers signed the banner currently adorning the southern façade of the building.

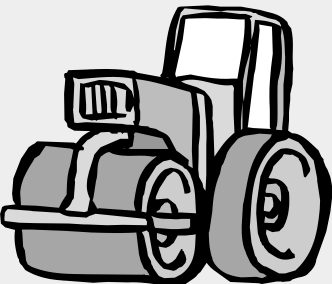
The TSF Project Team is available to address concerns and provide additional presentations to interested groups. Contact Anita Zenger at ext. 3-7959 for more information.

To see additional images and for more information, check the TSF Website at: [http://www.llnl.gov/asci/tsf/tsf\\_scrapbook.html](http://www.llnl.gov/asci/tsf/tsf_scrapbook.html)

## Road resurface work begins at Site 300

Work to resurface Corral Hollow Road and install a new turn lane into Site 300 has begun.

Corral Hollow will be resurfaced from the Alameda County Line to I-580 over the summer. Resurfacing has begun at the Alameda County line as has the work on the drainage pipe system at the entrance to the experimental test site. Paving of the



entrance area is scheduled for later this month.

San Joaquin County selected Granite Construction Co. as the contractor. One set of lanes at the entrance to Site 300 will remain open at all times. Questions about the project may be directed to Cal Dibble at ext. 2-8921 or at [dibble1@llnl.gov](mailto:dibble1@llnl.gov).

### SSEP Diversity Speaker Series

Sponsored by the Safety, Security and Environmental Protection Diversity Committee

#### How to Make Powerful and Persuasive Presentations

**Vanna Novak**

Keynote Speaker and Seminar Leader

**Thursday, June 26, 2003**  
**12:00–1:00 p.m.**  
**Bldg. 543 Auditorium**







# NEWS YOU CAN USE

## Cutting edge technology



JACQUELINE MCBRIDE/NEWSLINE

As part of Cancer Awareness Month, Dr. John Adler, a neurosurgeon at Stanford University, spoke to employees on Wednesday about the “Cyberknife,” an advanced image guidance technology to assist with tracking and treating tumors.

## Author to discuss ‘secret palace of science’ that changed course of war

Journalist and author Jennet Conant will discuss her recent book, “Tuxedo Park: The Secret Palace of Science That Changed the Course of World War II,” at 3:30 p.m. Tuesday, June 24 in the Bldg. 543 auditorium. All employees are invited.

The book recounts the years leading up to the Second World War, when an eccentric Wall Street mogul and amateur scientist named Alfred Lee Loomis brought together many of the world’s greatest scientists in a gilded preserve of money and privilege called Tuxedo Park. There, an hour’s drive north of New York City, in a magnificent mansion that Loomis converted into a laboratory rivaling any university’s, the likes of Albert Einstein, Niels Bohr, Werner Heisenberg, Enrico Fermi, and Ernest Lawrence gathered with younger colleagues to work and play. Many in that bright circle would band together not only to build the radar systems that would alter the progress of the war, but also to create the atomic weapons that would transform the world forever.



Jennet Conant

Conant tells the largely forgotten story of Loomis and the remarkable role he played in marshaling America’s scientific resources, as well as the scandalous affair that blossomed in the enclave’s hothouse atmosphere and turned him into a social pariah. As the granddaughter and grandniece of two leading scientists of their era, Conant also explores and makes peace with the legacy of brilliance, mental illness, and suicide that marked the Loomis family as well as her own.

Conant is the granddaughter of Harvard President James B. Conant. There will be an informal reception in the Bldg. 543 lobby immediately following the talk. The presentation is sponsored by the Laboratory History Project.

## Technical Meeting Calendar

**Friday 13**  
**CHEMISTRY & MATERIALS SCIENCE**  
“Assessment of the Computer Codes Used to Model the Release of Radionuclides,” by Eduardo B. Farfán, South Carolina State University. 10 a.m., Bldg. 155 auditorium (cleared area). Contacts: Christine Hartmann-Siantar, 3-4619; Rosa Yamamoto, 2-0454; Bonnie McGurn, 3-2764.

**Monday 16**  
**PHYSICS & ADVANCED TECHNOLOGIES**  
“Recent Applications of L-shell Spectroscopic Diagnostics to Mo Pinch Plasmas,” by Stephanie Hansen, University of Nevada, Reno. 10:30 a.m., Bldg. 219, room 163 (uncleared area). Contact: Stefanie B. Landes, 2-3201.

**Tuesday 17**  
**CHEMISTRY & MATERIALS SCIENCE**  
“A Rapid Determination of Americium, Plutonium, and Uranium In Radioactive Wastes, Radioactive Mixed Wastes, Soils And Water,” by Norris K. Harward, RFETS. 11 a.m., Bldg. 151, room 1209 (uncleared area). Contacts: Reginald Gaylord, 3-1875, Beverly Zumwalt, 2-7535.

**Wednesday 18**  
**ENERGY & ENVIRONMENT**  
“The Stochastic Engine: Improving Prediction of

Behavior in Environments We Cannot Directly Observe,” by Roger Aines. 1:30 p.m., Bldg. 543 auditorium (refreshments will be served). Contact: Camille Vandermeer, 3-2672.

**Thursday 19**  
**CENTER FOR GLOBAL SECURITY RESEARCH**  
“Russian Military Policy and Military Reform,” by Alexander Golts, *Ezhedelnyi zhurnal*. 10 a.m., Bldg. 170, room 1091 (uncleared area). Contact: Tami Alberto, 2-5969.

**INTEGRATED COMPUTING & COMMUNICATIONS DEPARTMENT**  
“How to Build a Cocoa Application in One Hour,” by Dave Sopchak. 10:30 a.m., Bldg. 543 auditorium (uncleared area). Contact: Duane Straub, 2-9774.

**ENGINEERING**  
“Host Gene Expression Responses to Biothreat and Pathogenic Agents,” by Mart Jett, Walter Reed Army Institute of Research (WRAIR). 10:30 a.m., Bldg. 361, room 1155 (uncleared area). Contact: Ray Mariella, 2-8905.

**CHEMISTRY & MATERIAL SCIENCE**  
“Fourier Transform STS: Electronic Structure Determination in Complex Materials,” by J.C. Séamus Davis, Dept. of Physics, Cornell University. 11 a.m., Bldg. 155 auditorium, room 1101. Contacts: Tom Felter, 2-8012, or Rebecca Browning, 2-5500.

**Friday 20**  
**INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH**  
“PC Based Visualization: Hardware and Software Solutions,” by Charles Hansen, University of Utah. 10 a.m., Bldg. 551, Del Valle Room (uncleared area). Contacts: Mark Duchaineau (CASC), 3-1320, or Leslie Bills, 3-8927.

**Thursday 26**  
**BIOLOGY & BIOTECHNOLOGY RESEARCH PROGRAM**  
“Adventures in Geomicrobiology: A Young Investigator’s Story,” by Tim Magnuson, Idaho State University. 10:30 a.m., Bldg. 361, room 1155 (uncleared area). Contact: Harry Beller, beller2@Inl.gov.

The deadline for the next Technical Meeting Calendar is noon, Wednesday.

Send your input to [tmc-submit@Inl.gov](mailto:tmc-submit@Inl.gov). For information on electronic mail or the news-group [Inl.meeting](mailto:Inl.meeting), contact the registrar at [registrar@Inl.gov](mailto:registrar@Inl.gov).

NEWS OF NOTE



Oakland students discover science at the Laboratory

Linda Lucchetti  
NEWSLINE STAFF WRITER

Forty sophomores from the Media Academy of Oakland's Fremont High School visited the Discovery Center recently to take a look at science, learn Lab history, and get a "behind-the-scenes" peek at the design process for the remodeled Discovery Center.

Instrumental in coordinating the Fremont High visit was T.R. Girill of the Lab's Innovative Business & Information Services (IBIS) department. Girill is a technical writer matrixed to the Computation Directorate. He has been involved in outreach activities at the school since 1999, after giving a presentation there about computer documentation, part of the technical literacy outreach project conducted by the Society for Technical Communication (East Bay Chapter, EBSTC), of which Girill is a member.

It was this initial, positive interaction that inspired Girill to go back for more—using his technical writing expertise in the classroom to sharpen students' writing skills and spark their interest in nonfiction text.

"Pro bono community work is a key part of every complete professional life," Girill believes. "And besides, it is very satisfying." The field trip to the Lab was Girill's idea, to tell his students more about the Laboratory and where he works. "Our goal [with the field trip] was to reinforce what the students had learned during the year and to encourage them to stay in school and learn more...I think we succeeded." Girill stated.

The academy format has been a successful concept in assisting inner-city schools like Fremont High. An academy is a school within a school, representing a defined set of related classes, much like a college offers a major. It is geared to encourage under-performing students, such as those at Fremont High, to stay in school by exploring exciting,



JULIE KORHUMMEL/NEWSLINE

Computation Directorate's Associate Director, Dona Crawford (right), looks on as Jill Souza of UTEL (left) assists Gary Pulu, a Fremont High School student, with the energy bike demonstration at the Discovery Center.

real-life areas of work. In the case of the media academy, traditional studies are linked to areas such as the school newspaper, literary magazines, publishing, TV and radio. The recent school year has seen a gradual emergence of additional new, small interconnected schools on the Fremont campus, and the Media Academy is now becoming more commonly known as the Maynard Communication High School.

Girill has offered workshops to Fremont High juniors in such areas as writing instructions and descriptions. More recently, for sophomores, he has added new exercises integrated with their reading of Eric Schlosser's popular book "Fast Food Nation."

Girill said his outreach involvement would not have been possible without the strong commitment of his matrixed organization, the Computation Directorate. With the support of Computation, he has visited the classroom at least once a week—a factor that Girill acknowledges is "a serious investment by the Computation Directorate in applying their talent to community outreach."

Dona Crawford, AD for Computation,

was supportive and pleased stating, "Through Terry's efforts, students develop the same job-relevant cognitive skills that are used to design computer documentation at LLNL. These skills might not otherwise be learned by these students."

While visiting the Discovery Center, students heard from graphic designer George Kittrinos of the IBIS department, who was part of the team that worked on the renovation of the Center. Kittrinos explained the process of exhibit design, creation, and selection and the continual team effort involved to pull together a large project while meeting deadlines. In addition, the group watched Chemistry's Reggie Gaylord present a "Fun with Science" session, while participating in some hands-on activities and experiments about density, electricity, and chemistry.

Jean Shuler, Deputy Division Leader for Services and Development (SDD) in Integrated Computing and Communication (ICC),

joined the students during their visit. "I was very impressed at the interest the students showed in the technology that is done at LLNL. I think it sparked their desire to find out more about science," said Shuler.

Teacher Michael Jackson thanked the Lab staff for "a fantastic day of exploration and discovery." He added, "It was highly educational and fun!"

Karen Rodriguez, Manager of Public Education and Outreach, said, "This type of activity, which leverages Public Affairs' newly redesigned Discovery Center educational/outreach programs, and Directorate missions and activities, is exactly what we want to take place on a continuing basis. In addition, this type of outreach addresses an item on the Director's 'A List' —that is, 'effective community initiative.'

"We are here to collaborate with all Lab programs to support their efforts, particularly in outreach to external audiences. We look forward to working on additional co-sponsored outreach activities," Rodriguez said.



JACQUELINE MCBRIDE/NEWSLINE

Administrative workshop

Julie Giannini (left) and Blanco Crivello (right) participated in this year's day-long workshop at the Shrine Center. As part of an exercise in team building and consensus, they had to agree on a list of items they would need if they were stranded on the moon. The annual workshop provides Laboratory administrative staff with an opportunity to network. Former astronaut Tamara Jernigan was the keynote speaker at the event.





AUTOMOBILES

Saturn SL2, very good condition, low mileage. \$4500/BO. 209-564-1118

1994 - Acura Integra LS-VTEC, 2001 complete conversion, everything shaved, CD, clean interior, new white paint. \$9000 or BO. 925-454-8900

1989 - HONDA CRX si \$1,500 209-854-6999

1997 - Z3 BMW, Blk/Blk, power, heated seats, 5-spd. Exc. Cond., 64K mi, \$12,800 510-352-1080

2002 - Blue HONDA CIVIC EX - 30,000 miles - excellent conditions - all services done at HONDA (30,000 done already) - \$13,500 - Call 510-658-3694

2001 - Toyota MR2 Spider, Silver w/blk conv., 5sp, fully loaded, \$19,900 obo. 925-550-3809

1995 - GEO Prizm. Runs great. 4-door, AC, CD player, new brakes, tires -1 yr old. Needs body repair on driver-side door (2-tone). Asking \$1,300 obo. 209-825-1242

1994 - Ford Exporer Limited, Burgundy/ Beige, 81,500 mi. Yakima bike racks, chrome wheels, 6-CD Changer, moonroof, \$6,500 Livermore 925-447-5002

1997 - Lexus LS400 Coach Edition, Black/Black. Very clean 49,850 mi. Nakamichi sound, newer tires. \$22,000 OBO Livermore 925-447-5002

1990 - Honda Prelude Si, 89K mi., white w/black interior, air, auto, ps, pb, pw, sunroof, spoiler, AM/FM/cass, runs great, excellent condition - \$4500/BO. 510-581-7367

1995 - Dodge Caravan goodshape \$3900. 925-516-9140

1966-Ford Galaxie 500. 390ci,auto, 4 door,all original and very clean. 120k mi.\$6000 925-606-1745

1995 - Chevrolet Suburban 4X4 LS with 127K miles. Good condition with 12CD player. \$8500 or best offer. 209-832-1321

1992 - Ford Explorer XLT. Excel Cond, garaged, 80K. 5spd, all power. Tow pkg. One owner, all receipts. \$4900 obo. 925-240-1090

1997 - Honda Accord Special Edition. Fully loaded, clean, excellent condition. 102,000 mi. \$7,800. 505-238-9516

1985 - Pontiac Fiero GT. 160,000 miles. Runs but needs some work. \$1,000. 209-952-5045

1997 - Ford T-Bird, excel. condition, V8, AC, Pwr, 2Dr Silver color, 120K, \$3500/obo 209-892-2700

1993 - GMC jimmy 4.3liter vortec, AC, power everything,leather, CD, good tires, 147k miles, overall good condition. \$3500 obo. 925-381-7395

AUTOMOBILE ACCESSORIES

1997 TJ Jeep stock rims 5 lug, used, \$130, Factory soft top windows, used, \$150, Lock boxes \$120, obo. 925-216-7795

Two tires in good condition - 205/65-15. \$20 pair 925-455-4484

BICYCLES

E-bike electric bicycle, \$450 OBO. 209-823-9873

BOATS

Fun in the sun! 1989 Yamaha Waverunner with trailer. Runs great. \$1,000. 209-334-1006

12 foot aluminum boat \$250.00 - call 510-538-4881

Total jetski package 1995 ZXI 750cc with 1994 X2 650cc, double trailer.Vests and extras. Only used 6 times! Always garaged! \$5,400 209-599-3331

Yamaha Wvmrns w/Tndm Trlr-2000 GP800-2 setr+ 1999 GP760-2 setr.Bght new in 2000w/50 hrs.Incl trlr w/stirge bx,gas tnk rck,batt chgr,cvrs-more.\$10,000. 925-373-5918

20 ft.webercraft open bow ski/fish. 351 ford OMC i/o.Seats 10, good solid older boat.Bimini top,2 new seats.Runs great but needs tlc , \$2000 firm 925-684-9252

2000 Mastercraft SportStar. 70 hours with Tower, Bimini Top, CD Player. Excellent Condition. \$23,000. 209-543-6121

CAMERAS

New Nikon N80 with Sigma 28-80 macro and Sigma 28-200 macro, all for \$570/b.o. 925-377-6537

ELECTRONIC EQUIPMENT

Toshiba PCX1100U cable modem, like new in original box. Works with ATTBI/Comcast and others. \$25. 925-454-8827

Portable color LCD screen, 5.6 inch. Runs on 12VDC (adapter and video cable included). Built in speakers. Like new. \$150 925-455-4484

Television, JVC, 19 inch color, 19 years old, works fine, \$25. 925-606-6155

Heavy steel CD tower. Holds 120 CDs and stands 5 feet. \$50.00. 925-838-9302

Netgear 4 port router RT-314. Great for sharing your Comcast Cable Internet. \$30 925-243-1033

Atari 520ST with upgrade to 1040ST. Includes monitor, cpu, mouse, extra floppy drive and lots of software and manuals. \$50 925-443-4413

GIVEAWAY

Free: Portable basketball hoop 925-449-0463

Free, All oak receptionists desk. Drawers, two level, top counter, etc. You pick up in Tracy. 209-836-8946

FREE: Macintosh Performa 636CD computer and Apple Personal Laser Writer 925-449-0463

Contrete piers--about 35-30. You haul. 925-449-0430

Mitsubishi, CS-2725R, 27 inch TV with Picture-in-Picture. Needs servicing. 925-243-9123

Old upright piano. Needs work. You pick up in Tracy. Very beutiful woodwork. Turn of the century. 209-836-8946

Full bedroom setup. Double bed, nightstand, and dresser. Recliner also available. Good condition. U-pick up. 925-600-4297

HOUSEHOLD

12 inch silver, rhino rider bicycle, \$30. Little tykes rolling basketball hoop, 4-7 ft., \$20. 925-294-9022

GE Range: 4 electrical burners and oven. Used, but in good condition and very clean. \$100/OBO 209-612-8052

Glass top kitchen table from Pier 1, 42 inch diameter, black metal base, \$40, 925-463-0151

Computer desk, good shape, \$50 OBO 925-447-4797

Moving sale - appliances (Handblender, toaster, kettle, etc...), kitchenwares and a full-size bed. Call 510-658-3694

Duncan Fife mahogany dining room set with six reupholstered chairs \$250. Oak TV stand with shelf for components and large storage drawer \$75. 925-443-5564

Antique dinner chairs. 4ea. oak. Good original condition, but could use refinishing. Asking \$125/set. 925-449-5441

Antique dining table. Beautiful oak draw leaf. (60 X 38) Extends to about 84 inches long. Great condition. Asking \$300. Call 925-449-5441

Double bed with brass headboard and all bedding. Outstanding condition, used very little. \$300 925-443-2743

TODDLER BED - solid wood, natural finish, like new,\$60. Simmons Maxipedic crib/toddler bed mattress, \$25. 925-454-0877

Toro Carefree Cordless Electric Mower. Rechargeable Battery operated mower. \$125 obo. 925-292-1624

Moving sale: desk, couch, futon, porta-crib, dining table, shelves, and more (See http://home.alamedanet.net/~rons/furniture/) 510-864-8835

Bunk beds with mattresses. Maple. Good condition. \$50. 925-373-6813

Entertainment center, oak holds TV and stereo equipment. Has two drawers. \$150 or best offer. 209-823-1277

Estate sale! sofa, chair, ottoman, coffee and console table, night stands, end tables and cal king box springs! Great condition, 209-239-1526

Little Tykes Blue Race car bed-mattress included-\$25 Little Tykes yellow & green VS Bed-mattress not included -\$50-both Ex. Cond. 925-373-8239

double oven great condition \$200 obo Black, kitchen aid. 925-449-1340

Moving sale! Sears large 1-1/2 hp table saw, \$175; Sears 4-1/8 in. jointer, \$40; basketball hoop, \$50. 209-823-9873

Victorian-style couch. Mahagony wood;

cream upholstery. Originally purchased from a New England Antique Store in 1970. Very heavy. Make offer. 925-447-8820

Desk, large roll top. Excellent condition. \$150. 925-606-0260

2 dark wood armoires \$75 each; 2 book-shelves \$20 each. 925-449-0463

Lingerie Chest - New still in box. Solid Wood construction w/ cherry finish. 150 obo. 925-600-9742

Loveseats (2) and chair w/ottoman; honey pine; by thisendup.com (>\$1200 new); tables available; \$200 925-243-1033

Entertainment center \$100, It Oak; for 35in. TV; left side stereo cabinet w/tinted glass; storage below - pix available 925-243-1033

Cal King comforter set. Dan River brand. Includes comforter, shams, and skirt. Attractive dark multicolored pattern. Excellent condition. \$35. 925-846-3653

24 inch kenmore double door ref with ice maker and water dispen. \$400.00 aprox 3 years old 925-829-3068

MISCELLANEOUS

Moving overseas sale: new dark green sofa, \$200; new book case \$16, new plastic transparent chest of drawers \$9. More! 925-245-0728

ITALIAN CHARMS w/ Relay for Life emblem \$20. 925-373-9435. Fund-raiser. For more Relay info. call 925-373-9435

Japanese books. Fiction and non-fiction paperbacks. Fifty cents each or three for a dollar. Have several hundred to pick from.. 925-625-1728

Toddler Bed, White metal with mattress asking 65.00 or BO 408-897-3031

Custom made queen size sofa bed. Excellent. \$400 OBO 925-443-2743

Antique Milk Glass Dish Set. Family owned. Service for eight. 925-634-1110

Little Tikes Turtle covered sandbox, \$15. Fisher-Price Lift n Lock Toddler swing seat, \$10 925-454-0877

2000 Buell Blast, yellow, low miles, red plastics (fender, tank, seat). Great for beginners. \$3800 OBO. 209-869-2833

Fleetwood Mac concert tickets. Oakland Arena July 23rd. 2 or 4 seats in great location. Cost \$90 per seat. Best offer. 925-245-1574

Machinist tools, Indicator, depth gage and various blocks, call 209-239-1526.

Hot Tub, works, 110v, pump has small leaks. Older Cal Spa. \$200.00 209-401-7770

Smith Hawken Compost Bin, Biostack, NEW in box \$30 (1/3 of retail) 925-243-1033

Ergonomic Office Furniture - make your home office safel Ergo Corner Desk, Lat Files, Book shelves. By Osullivan. Call for details. 925-243-1033

Tablesaw, Grizzly 10 inch, heavy duty, cast iron extensions, table 27 x 41 inches, miter, fence, stand 1 1/2 hpm hardly used \$350.00 925-447-6099

MOTORCYCLES

New Mtrcycle tow hitch. Fits std 2 x 2 hitch. 28 lbs & Can be stored in car trunk. Adj for 23 - 28 inch front tire. \$175 209-833-6452

1973 - Honda 350CL Scrambler, near perfect, 3K mi., \$2,400.00. Also, a cool Honda MT250, \$900.00. 408-263-8822

2000 - Quad- Yamaha Warrior 350cc, electric start, 5 speed w/ reverse, white/red, new battery, like new, used very little. \$3250 B/O 209-832-8515

1987 - Kawasaki Ninja 750. 11k mi. Clean, in storage 3 yr.Need carbs cleaned/battery.New chain/sprockets and tires. \$1500 Call evenings before 9 please 925-449-7009

2003 - Rental Bars-FMF Fatty Pipe Works Conn-Frame Guards-R304 Shorty-Boyesen Cover-jettied-Excel Rims-New Tires with Fly Stand-\$6200 OBO 925-447-0546

1999 - Honda XR650L, dual sport, street legal, 3K miles, well maintained, excellant condition, \$3950 OBO 925-634-5606

1996 - Harley Sportster. 1200 Custom. Excellent condition, many extras. Asking \$6850.00 925-449-5441

MUSIC INSTRUMENTS

LLESA Dance Band needs trumpet players. Wed.evening rehearsals, south cafeteria, 7:30-9:30 925-443-2245

PETS & SUPPLIES

foldable plastic pet carrier, large-up to 60 lbs.

Like new, \$40. 925-294-9022

Free, Two sweet parakeets, Sky & Aqua, are looking for a loving home. All supplies included. 2 yrs old. 925-606-5315

Golden Lab Retriever female puppy; 6 months old. AKC registered/papers.Beautiful dog. Have more (4) than we can handle.\$200. Puppies sold for \$400. 925-447-9242

Desperately need home for a friendly Tortoise Shell and shy Calico cat. Both female, healthy, 8 years old, spayed and current on all shots. 510-339-9866

Free to good home. 2yr old Australian Shepherd/Border Collie female dog. Needs room to roam & very playfui. 209-825-8959

Beagle Puppies. AKC Registered, show quality. \$700 each. 925-449-9078

Free Kittens 925-443-4413

RECREATION EQUIPMENT

Nordic Track Walkfit aerobic exerciser, Excellent condition with computer monitor, tools and complete instructions. \$275.00/obo. 209-892-5885

SADDLE: 17 inch Crosby Equilibrium All Purpose Saddle; excellent condition; BO 295-634-2307

Total Gym Pro - excellent condition, hardly used. \$150/obo. Inversion Table by hang-ups. Exclnt cond, hardly used. \$175. In Tracy. 209-814-6866

Tough Traveler child carrier backpack with aluminum frame. See toughtraveler.com for info. \$25. 925-454-8827

Vitamaster treadmill features pulse, cal, time, distance, speed, incline grade, safety pull pin \$400.00 925-833-8732

Delorme Earthmate GPS (reqs PC laptop) w/Street Atlas 8.0, car power cable exc. cond \$50 obo 510-537-0698

Top-Flite Tour golf clubs 3-PW with SW, putter, titanium driver, and bag. \$350 or best offer. 925-699-4359

Tennis rackets from Balabot, Head & Fischer. All recently strung. Exc. Cond. Call for details and pricing. 925-838-9302

RIDESHARING

Express your commute, call 2-RIDE for more information or visit http://www-r.llnl.gov/tsmp.

San Jose & Fremont - Space is available from San Jose and Fremont areas. Work hours: 7:30-4:30. Call 408-238-1909, ext. 3-3057

Danville - carpool needs 4th driver/rider. Diablo Road area. Work hours 8:15-5:00pm. 925-831-1569, ext. 2-9858

Modesto Mall Park & Ride - Luxury vanpool captain seats, reading lights 8-4:45 ridership-based fares, 209-544-2236, ext. 3-3194

PATTERSON - Vanpool has seats available for M-F 7:30 to 4:00 work schedule. Fare is determined by # of riders. 209-892-2118, ext. 2-9502

ELK GROVE/GALT/LODI - Forming 4-person carpool. 9-80s sched. some flexibility 6:30-4. Assigned days, Friday rotate. 916-686-4554, ext. 3-3901

Cupertino/Surrounding Area - Looking for 1+ people to drive/ride in carpool or vanpool. 9/80 hours are 7:30-5:15 w/some flexibility. Contact 4-4527

Lafayette - LaMOrinda Vanpool (also Walnut Creek stop at Rudgear Rd): reclining seats, reading lights, 7:45-4:45, \$110/mo (pretax reduction available) 925-943-6701, ext. 2-3005

Oakland - Montclair vanpool is seeking new ridership. We are on the 9/80 schedule, arriving at the lab at 7:35am and leaving the lab at 5:30pm. 510-834-6405, ext. 4-5173

Manteca - 4th person needed. Drive every 4th day. Work hours 7:30 to 4:00. 209-823-5593, ext. 3-8539

SERVICES

Exterior House Painting - 18 yrs exp. Call for free estimate. 209-956-3718

Professional Sprinkler Repair, ask about our fertilization and sprinkler checkup. 925-443-6010

Looking for a great smelling candle! RD Candles has just what you need, candles, holders, and air fresheners. Call for Catalog 209-983-1575

Videographer, all event videos. Film style very reasonable rates! Over 10 yrs. experience, call 209-239-1526 cell 510-364-4220. 209-239-1526

College Student available for housesitting and babysitting. Prefer Liv/Pleas area. Summer Class schedule 7am-9:30am. 925-373-2832

SHARED HOUSING

Livermore - furnished room for rent. Clean/quiet. No pets/no smoking. \$550.00. Long term preferred. Share utilities 1/3. Deposit 925-449-1128

Livermore - Room for rent, furnished, near Lab. \$600./Mo and \$300./deposit.Rental includes utilities. Non-smoker.Call evenings. 925-292-4770

Dublin. - Roommate wanted to share new 2200 sq ft house. Separate bathroom, use of pool, gym, garage & laundry facilities. \$950/mo. 925-829-4341

Livermore, CA - Responsible summer intern from a small military college in Virginia seeking housing July 15th - Aug 8th. Flexible on living arrangement and rent \$ 540-798-1250

TRUCKS & TRAILERS

1985 - Winnebago 22ft Motorhome vary clean sleeps 6 new tires, and refrigerator must see. 14k obo. 209-522-4427

2000 - Dodge Dakota 4WD, club cab, 26K miles, 4.7LV8, auto, AC, PS, PB, pwr win/lcks, cruise, AM/FM/cas, alarm, ABS, bed liner. Excellent cond. \$16,400 OBO. 925-245-9904

1995 - Fleetwood Jamboree C Class orig owner 37k miles 24ft. 4kw gen \$25,000 209-765-2115

1977 - Chevy Blazer w/4inch lift. Runs Great! Rebuilt 400 CU Inch Engine; Rebuilt Trans., Re-gearred headers, dual exhaust; many mechanical extras. \$5000. 925-373-5918

21 ft. Kit Companion 5th wheel.Fully self contained.Fridge,bath,stove,etc. Newer AC and hot wtr hlr.Good shape but needs tlc \$2000 firm 925-684-9252

1991 - Ford Explorer, 4x4, 4 door, V-6, AT, mud/snow tires, mags, good cond, 125K miles, x29914 lab, \$3,499. 510-252-9596

2000 - Lance 835EC CabOver LB, Exce. cond. AC,Micro,qn bed, child bunk w/ restraint,am/fm/cd,roof rack, fiberglass, o/s shower & more like new \$11.5k obo 209-832-2150

1962 - Ford F-100, engine, drive train & breaks good. Needs some body work & paint. Started refurbishing. \$300.00 209-401-7770

2002 - Chevy Silverado LS, 4-dr/xcab, V8/5.3L,sprayed bedliner,loaded. 16k mi. \$22K. 209-833-1201

1980 - 4x6 utility trailer. \$150 925-443-4413

VACATION RENTALS

Cute cottage beach house in Santa Cruz. 2 bedr.,2 bath, sleeps 7-8. 925-245-1114

Maui, HI - - Kihei Beach Oceanfront Resort 1BR/2BA condominium. LLNL summer special! Must see pictures to appreciate. For fantastic rates and pictures call 510-219-6651

South Lake Tahoe - Large comfortable home in quiet wooded area. Spa, gas bar b q, foosball and pool tables, washer, dryer and newer furniture. 925-484-3162

MAUI-Kihei 1,2&3 bedroom condos. On beach, large pool,tennis courts,putting green,near golf courses. Beautiful grounds,washer/dryer in units. 925-846-8405

Oahu, North Shore Condo 1 Bedroom, beautiful view of ocean On sandy beach Daily or weekly rates available 925-516-9877

SOUTH LAKE TAHOE - 3 Bedroom 2 bath Chalet, nicely furnished, All amenities, Park w/ Lake, tennis etc. Great for family vacation! 209-599-4644

WANTED

Wanted-Air compressor for my son who has been taking all the Auto classes at LPC. For a good price 925-449-1340

Looking for a used surfboard around 7 feet tall. Price around \$250. 510-548-9762

Moving boxes wanted. 925-443-2743

Looking for new/used moving boxes, all sizes needed. If you have any just gathering dust please give me call. 925-634-8134

WANTED: Roof tear off service 925-831-9331

Moving boxes. 209-521-8977

Motivational or self improvement books or tapes. 925-337-1620

# Evolving role of women in the armed forces discussed

By Dale Sprouse

IBIS

In a belated Memorial Day talk titled "This is Not Your Mother's Military" on the role of women in the U.S. armed forces, Navy Capt. Lorrie Sammons conceded to a Lab audience last week that "maybe it is."

The talk was sponsored by the Lawrence Livermore Laboratory Armed Forces Veteran's Association (LLAFVA) and the Lawrence Livermore Laboratory Women's Association (LLLWA).

Addressing a Bldg. 543 auditorium mix of employees, many of whom were members of the Laboratory's Armed Forces Veterans Association, and a youthful cadre of male and female service personnel, Sammons said about half of the 200,000 women on active duty today are mothers.

Sammons, who joined the Navy in 1971, sprinkled her talk with references to her experiences as a Navy nurse, her tour of duty as an adviser to the Navy Surgeon General on women's health and her experiences helping develop health programs for service women in the Bay Area, erecting a fleet hospital in the desert and living aboard a nuclear aircraft carrier.

Although her talk was billed as a look at changes in the last 30 years, Sammons reached back as far as the War of 1812 to offer a perspective on the evolution of women's roles in the military.

The linchpin of her talk was the Navy nurse corps. She spoke of what she called the "first record of women on the sea"—two contract nurses who were aboard Commodore Stephen Decatur's ship, the United States—and of the women who provided nursing care to Union and

Confederate soldiers during the Civil War. She also acknowledged the award of the Congressional Medal of Honor to Civil War physician Dr. Mary Walker, the only woman who has received the award.

Sammons noted that in 1898, in acknowledgment of the value of contract nurses during the Spanish-American War, the acting Assistant Surgeon General, a woman, was asked to write legislation that would lead to creation of a permanent corps of nurses. By World War I, more than 30,000 women were serving in the U.S. military. By World War II, their numbers had swelled to more than 400,000.

In 1948, the Women's Armed Services Integration Act granted women permanent status as regular reserve forces. With the outbreak of the Korean War, women who had joined the reserves were involuntary recalled to active duty—a milestone in the eventual integration of women into the military.

Among the key factors since the Vietnam War that helped shape today's gender-integrated military, Sammons said, were removal of a cap on the percentage of women in uniform, the end of the draft and the move to an all-volunteer force, and changing societal attitudes about women in the armed services.

Sammons called the repeal in 1967 of laws that had placed a 2 percent cap on the women in the military a "landmark" event. Equally significant, she said, was the lifting of the ceiling on the highest grade a woman in uniform could achieve. By 1970 women, she noted, women had begun the advance to "flag or general field ranks."

Establishment of an all-volunteer service in 1973, said Sammons, led to the recognition by ser-

vice branches that they would need to "use the entire labor pool" to help them meet their "in-strength requirements."

With growing numbers of women entering the military, training opportunities, in such areas as aviation, began opening up, and officer candidate school and other training programs became gender integrated.

Directing her remarks to the young service personnel in the audience, she said, "If you didn't grow up in this, you cannot appreciate how different this all was."

One of the more significant family-friendly and woman-friendly changes with respect to women in the military occurred in 1975, she said, when the Department of Defense ended the policy of discharging women who became pregnant or who adopted a child.

In 1978, federal Judge John Sirica declared laws banning women from ships unconstitutional. Congress voted to permit women to serve on non-combat ships and in 1993 repealed the law that had banned women from serving on combat ships.

Sammons noted that the Coast Guard opened all assignments to women in 1978 and is today the only service that has no exclusions on the types of jobs women can perform.

Discussing the changes that have occurred with respect to exclusion of women from combat assignments, Sammons said: "If part of our rationale for excluding women in combat was that we did not want to put them in harm's way, what did we learn when the support personnel in the rear positions in Saudi Arabia (during Desert Storm) were killed by the Scud missile? That showed us that our old definitions of harm's way really did not apply anymore."

## UC

*Continued from page 1*

the 10-campus UC system on Oct. 2. He succeeds Richard C. Atkinson, who is retiring from the UC presidency after eight years that began Oct. 1, 1995.

Dynes was selected from a national pool of more than 300 candidates. The recommendation was made by a regental selection committee that was assisted by advisory committees of faculty, staff, students and alumni.

"I'm very pleased to hear of Robert Dynes' appointment as president designate of the University of California," said Director Michael Anastasio. "I've known Bob for close to 10 years and he is very familiar with LLNL. He has served on a number of University review panels for the laboratories and has worked closely with the national labs for more than 25 years. He has a strong background in science and is an outstanding selection."

"Bob Dynes is an outstanding individual who will provide superb leadership to maintain the quality and accessibility of the University of California," said John J. Moores, chairman of the Board of Regents. "He brings the perfect mix of skills and experiences to tackle this demanding job. I appreciate the input of all who participated in the selection process, and I am particularly grateful to the faculty for the important role they played in our deliberations."

Dynes, 60, is an expert on semiconductors and superconductors who spent a 22-year physics career at AT&T Bell Laboratories before joining UC San Diego, where he has continued his research and teaching while serving as chancellor. Addressing the regents' meeting in Oakland, Dynes pledged his commitment as president to high-quality teaching, research that serves the public interest, expanded educational opportunity and institutional accountability.

"I am a first-generation college graduate whose life was transformed by educational opportunity," the Canadian-born Dynes told the regents. "As an immigrant, I came to America because of my belief that anything is possible in this country if you work hard and apply yourself. As a physicist, I have a pas-

sion for discovering new ideas and an even greater passion for watching my students discover new ideas. Last but not least, I am a Californian, and I am as dazzled by this radiant and richly diverse state now as I was when I arrived 12 years ago.

Dynes also is intimately familiar with the three national laboratories UC manages for the federal government. He is vice chair of the University of California President's Council on the National Laboratories and a member of the Los Alamos National Laboratory Oversight Board. In addition, he has had a 25-year association with the national laboratories as an adviser and consultant to the physics research and weapons programs.

Dynes said very little about plans for the three UC-managed labs in the press conference after his selection was announced, but when asked if he felt the University should compete for the LANL contract, he replied, "we should prepare as if we are going to compete."

"I have a long affiliation with the labs, especially LANL. My feeling is that the University has performed an enormously valuable service over the last 60 years. The University can stand up and be proud of the contribution it has made," Having said that, as we look to the future, it is premature to make a decision as to whether we will compete or not. It depends on what the conditions are. If the conditions of the contract are consistent with the mission of UC, we should go forward."

Under Dynes' chancellorship at UCSD, faculty and student quality remained high, academic breadth expanded, ambitious management goals were met, and the campus addressed many key California and national issues.

During his time as UCSD chancellor, student enrollments grew 25 percent and graduation rates remained high; a new pharmacy school and management school were established; freshman seminar offerings were expanded; a new undergraduate college was established; outreach programs to public schools in the region were expanded; research expenditures increased 36 percent; the California Institute for Telecommunications and Information Technology was launched with UC Irvine; income from technology transfer increased 76 percent; an initiative to improve staff retention and support was

launched; a \$1 billion fundraising campaign began, of which nearly half has been raised; and the campus worked with San Diego State University to coordinate a regional homeland security network.

Today, UCSD ranks sixth among American universities in federal awards for research, seventh in the number of faculty elected to the National Academy of Sciences, and seventh among public universities in the U.S. News and World Report rankings.

"I could not be more pleased to have Bob Dynes succeed me as president," Atkinson said. "He is a first-rate scholar, a highly capable manager and a deeply compassionate individual. His record of performance as chancellor, his commitment to the core values of the University of California and his vision for the future will make him a superb president."

The regents approved a salary of \$395,000 per year for the new president. That figure is 18 percent less than the \$465,872 average presidential salary of the public and private universities across the nation that UC uses for salary-comparison purposes. It is consistent with the \$394,640 average presidential salary of UC's public comparison institutions.

A self-described "lower middle-class kid who almost chose an ice hockey career over college," Dynes grew up in London, Ontario, Canada, and is a naturalized United States citizen. He holds a bachelor's degree in mathematics and physics from the University of Western Ontario and master's and doctorate degrees in physics from McMaster University.

At AT&T Bell Laboratories, Dynes served as department head of semiconductor and material physics research and director of chemical physics research. Joining UC San Diego in 1991, he founded an interdisciplinary laboratory where chemists, electrical engineers and private industry researchers, joined by graduate and undergraduate students, investigate the properties of metals, semiconductors and superconductors.

His numerous scientific honors include the 1990 Fritz London Award in Low Temperature Physics and his 1989 election to the National Academy of Sciences. He is a fellow of the American Physical Society, the Canadian Institute of Advanced Research and the American Academy of Arts and Sciences.





# NNSA administrator surprises NIF with Award of Excellence

National Nuclear Security Administrator Linton Brooks (right) interrupted a program briefing by NIF Project Manager Ed Moses in Washington on Tuesday, to present him with the NNSA's Award of Excellence. The commendation praises Moses for his "vision, planning and leadership" and "extraordinary record of sustained accomplishments." Moses said he was "surprised and humbled," and said, "This award is shared with everyone in TeamNIF. It was their talent and hard work that made our successes possible."

## X-RAY

Continued from page 1

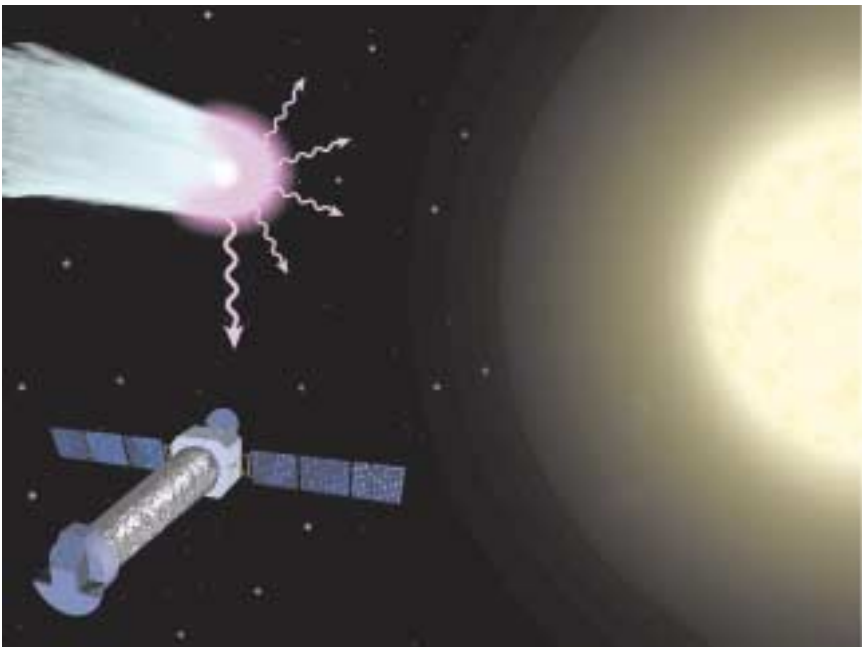
solar wind and gases collide in a comet.

In collaboration with researchers from NASA Goddard Space Flight Center, Columbia University Department of Physics and the University of Missouri-Rolla Department of Physics, the team will present "Laboratory Simulation of Charge Exchange-Produced X-ray Emission From Comets" in the June 6 edition of Science.

The researchers studied charge exchange-induced cometary X-ray emissions by installing the spare X-ray microcalorimeter spectrometer (XRS) from the ASTRO-E satellite mission onto Livermore's existing electron beam ion trap. The XRS was designed to view distant objects such as supernova remnants with a higher spectral resolution than is available at the Chandra X-ray Observatory.

Beiersdorfer said that cometary X-rays can serve as a diagnostic for solar activity and hence "space weather" by measuring the quantity and composition of the heavy ion flux in solar wind. In addition, recent work has shown that emissions can be a potential tool to gauge the speed of the solar wind.

"Because comets enter the solar system



from different directions in and out of the ecliptic, they probe regions that are not covered by spacecraft," he said.

Cometary X-ray emissions form when a continuous stream of charged heavy ions in the solar wind collide with the gases surrounding the nucleus of a comet. The collision is believed to neutralize the solar wind ions and induce them to give off X-rays characteristic of the ions and gases involved in the collision.

Actual X-ray emissions have been observed at the Chandra X-ray Observatory. In the Livermore experiments, the Goddard microcalorimeter recorded X-ray data that explained the emission seen from comets in the solar system.

A continuous stream of charged heavy ions in the solar wind collides with the gases surrounding the nucleus of a comet. The collision is thought to neutralize the solar wind ions and to induce them to give off X-rays characteristic of the ions and gases involved in the collision (upper left). This process was successfully simulated at the electron beam ion trap facility in Bldg. 194. An X-ray detector from Goddard Space Flight Center was used to record the signal.

"Next to the Sun, the process we demonstrated here at Livermore makes comets the strongest X-ray emitters in the solar system," Beiersdorfer said.



## AWARD

Continued from page 1

Several other groups of Health and Human Services employees were honored Wednesday, including a team that worked to protect the nation's food supply in the aftermath of Sept. 11, 2001 and another team that helped speed a program to develop vaccines, therapeutics and tests against bioterrorist agents.

Also during 2002, Estacio co-chaired an inter-agency working group that led to the validation of orthopox tests, including those for smallpox and monkeypox, for national use.

His co-chairman in heading the 30-person team of research scientists and physicians was Dr. Larry Kerr, who serves in President Bush's Office of Science and Technology Policy.



Pedro Luis "Pete" Estacio (left) and Jerry Hauer, assistant secretary of Public Health Emergency Preparedness.

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